NORTH CENTRAL FOREST EXPERIMENT STATION
FOREST SERVICE
U.S. DEPARTMENT OF AGRICULTURE

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NORTH CENTRAL FOREST EXPERIMENT STATION FOREST SERVICE — U.S. DEPARTMENT OF AGRICULTURE FOLWELL AVENUE ST. PAUL, MINNESOTA 55101

Veneer-Log Production and Receipts, North Central Region, 1968

Thomas P. Ginnaty, Jr.

This report of 1968 veneer-log production and receipts in the North Central Region is divided into two sections — Lake States (Minnesota, Wisconsin, and Michigan) and Central States (Indiana, Illinois, Iowa, and Missouri) — because the species grown and used in each area are different. In the Lake States hard maple, elm, basswood, red oak, and yellow birch dominate while in the Central States the hickories, the oaks, and

walnut are more common.

Cooperation by most of the 42 standard and 29 container veneer mills in the North Central Region made this report possible (fig. 1, table 1). All but two mills reported their 1968 veneer-log receipts by species and State of origin. Receipts were estimated for the nonreporting mills. This paper does not include data on exports except those to Canada.

LAKE STATES

Production

Loggers in the Lake States harvested 45.5 million board feet of veneer logs in 1968, only 89 percent of that produced in 1966 (table 2). Thus the trend continues downward (fig. 2), although it has been more gradual since 1958. Hard maple continues to be the leading species cut, with yellow birch, red oak, and elm following in order of volume. Most of the volume harvested (40.6 million board feet) was used by mills cutting commercial, utility, and face veneers for doors, furniture, wall panels, specialty plywood, and similar items. The rest was used in the manufacture of boxes, baskets, and other containers. An additional 2,000 cords of heading stock were used by the container industry.

Wisconsin produced 21.0 million board feet of veneer logs. Red oak, hard maple, and elm accounted for 30, 19, and 15 percent, respectively. Wisconsin mills used nine-tenths of the veneer logs produced within the State and two-thirds of the total volume produced in the Lake States.

Michigan harvested 19.3 million board feet of veneer logs. Of the total, 32 percent was yellow birch and 28 percent was hard maple. Only 43 percent of the veneer logs produced was retained in Michigan while 42 percent was shipped to Wisconsin and 15 percent to other States. Michigan exported 67 and 43 percent of its yellow birch and hard maple logs, respectively, to Wisconsin.

Minnesota, while only harvesting 5.2 million board feet of veneer logs, shipped 68 percent of it to Wisconsin mills. Nine percent was retained and processed within the State. Three percent went to Michigan and the remainder was shipped to other States. Major species cut were red oak and elm.

The Lake States exported 5.8 million board feet of veneer logs in 1968 of which nine-tenths was shipped to Central States mills. The dominant species exported were walnut (1.7 million board feet or all the walnut produced) and hard maple (1.6 million board feet).

Production is the volume of veneer logs cut from a specific area; receipts are the volume of veneer logs received by mills in a specific area regardless of the geographic source.

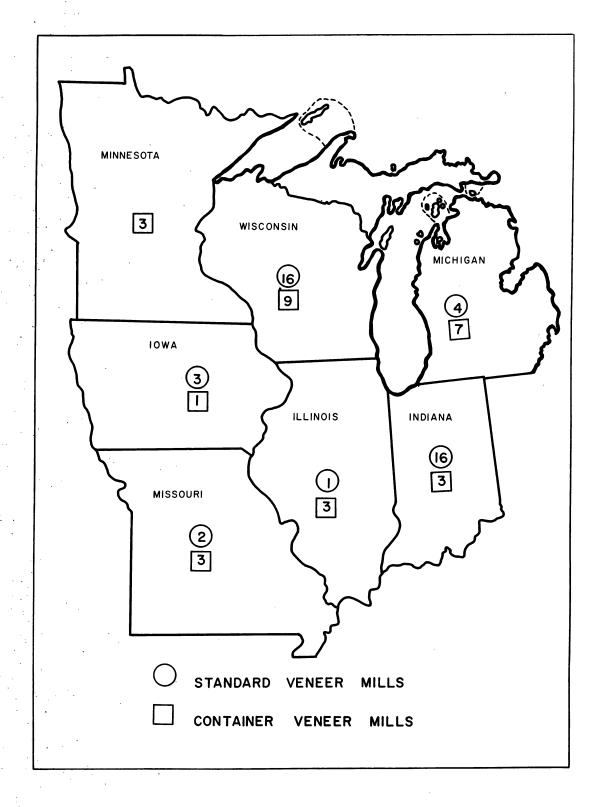


Figure 1. — Distribution of active veneer mills in the North Central States by State and type of mill, 1968.

Table 1. – Active Veneer Mills in the North Central States by State and type of mill, 1968

NNESOTA

Type of mill	Number	Name of mill	Location	Ţ.	Typ
Standard	None				
Container	1	Bren Berry Box Mfg. Co.	Hopkins		,
	0 °	Elk River Box Co. Wabbon Vanaer Mills	Elk River Wahkon		'n
		MISCONSIM			
				1	3
Standard	1	Birchwood Lumber & Veneer Co.	Birchwood		
	7	Birchwood Mfg. Co.	Rice Lake	_	-
	e	Calumet & Hecla, Inc.	Goodman		S
	4	Calumet & Hecla, Inc.	Mellen		
	٠.	Eggers Plywood Co.	Two Rivers		ت
	9	General Plywood Corp.	Antigo		
	7	Gillette Veneer & Plywood Co.	Gillett		
	80	Hatley Veneer Co., Inc.	Hatley		
	6	Larson Plywood Co., Inc.	Sheboygan		- 1
	10	Linwood, Inc.	Gillett		S
	11	Marion Plywood Corp.	Marion		Ö
	12	Northern Hardwood Veneer, Inc.	Butternut		
	13	U.S. Plywood Corp.	Algoma		- 1
	14	Weber Veneer & Plywood Co.	Shawano		
	15	Weyerhaeuser Co.	Marshfield		- 1
	16	Wisconsin Timber & Land Co.	Mattoon		လ
Container	1	Brunette Box & Veneer Co.	Rice Lake		
	2	Cooley Mfg. Co.	West Bend		
	e	Dufeck Mfg. Co.	Denmark		
	4	Ebner Box Factory	Cameron		
	5	Konz Container Co.	Howard Grove		
	9	Millersville Box Co.	Sheboygan		
	7		Seymour		
	œ	Standard Container Co.	Edgar		
	6	Wauzeka Box Co.	Wauzeka		
		MICHIGAN			
Standard	1	Birdseye Veneer & Plywood Co.	Escanaba		
	2	Manthei Bros.	Petoskey		
	e	Plycoma Veneer Co.	Nashville		
	4	Soo Veneer Co.	Sault Ste.		
			Marie	-	O
Container	1	A. C. Hensel Mfg. Co.	Augusta	_	
	2	American Made Veneer	Kalkaska	_	- [
	3	Anderson Container Corp.	Stevensville		
	7	Anthony & Co.	Escanaba		
	2	Fruit Growers Package Co.	Paw Paw		
	9	Riverside Package Co.	Riverside		
	7	Walkinshaw Package Co.	Shelby		

pe of mill		Number	Name of mill	Location
	1		IOWA	
Standard		-	Manchester Industries, Inc.	Manchester
		2		Dubuque
		3	er Co.	Spencer
Container	-	-	Burlington Basket Co.	Burlington
			MISSOURI	
Standard		1	Enterprise Veneer Corp.	Pleasant Hill
		2	Missouri Valley Walnut Co.	St. Joseph
Container			Betz Tipton Veneer Co.	Caruthersville
		2	Crumbliss Wood Products	Neosho
		3	Neosho Box & Wood Products	Neosho
			ILLINOIS	
Standard		1	Swords Veneer & Lumber Co.	Rock Island
Container		1	Cobden Box & Basket Co.	Cobden
		2	Dongola Veneer Co., Inc.	Dongola
		3	Main Brothers Box & Lbr. Co.	Karnak
			INDIANA	
Standard		-1	Amos-Thompson Corp.	Edinburg
		2	B. L. Curry & Sons	New Albany
		n	Central Veneer, Inc.	Indianapolis
		4	Chester B. Stem, Inc.	New Albany
		2	Curry Miller Veneers, Inc.	Indianapolis
		9	David R. Webb Co.	Edinburg
		7	Evansville Veneer Co.	Evansville
		œ	Hill Brothers Veneer Co., Inc.	Edinburg
		6	Hoosier Veneer Co., Inc.	Indianapolis
		10	Indiana Veneer, Inc.	Indianapolis
		11	Jasper Veneer Mills	Jasper
		12	Mitchell Industries	Greensburg
		13	National Veneer & Lumber Co.	Seymour
		14	Pierson-Holowell Co., Inc.	Lawrenceburg
		15	Roberts & Strack Veneer Co.	Clarksville
		16	Theising Veneer Co., Inc.	Mooresville
Container		1	Farrel Box Co., Inc.	Decker
		. 2	bany Box & Basket Co., Inc.	New Albany
		3	W. C. Redmon Sons, Inc.	Peru

Table 2. — Production and imports of veneer logs, Lake States, 1968 (Thousand board feet, International ¼-inch rule)

Species and	: (Quanti	Product: y of veneer logs		:	Lake States			
destination	Minnesota	Wisconsin	Michigan	Region total		Canada	: Total : imports	receipts <u>l</u> /
Aspen	·							
Minnesota	13			13				13
Wisconsin	2	381	47	430				430
Michigan			173	173				173
Total	15	381	220	616				616
Ash <u>2</u> /								
Minnesota	110			110				110
Wisconsin	22	453	44	- 519	27		27	546
Michigan			328	328	24		24	352
Outside Lake States		, 8	11	19				
Total	132	461	383	976	51		51	1,008
asswood								
Minnesota	92			92				92
Wisconsin	. 723	2,039	256	3,018	312		312	3,330
Michigan	723	56	435	491				491
Outside Lake States		13	23	36				
Total	815	2,108	714	3,637	312		312	3,913
Beech								
Wisconsin ,		39	79	118				118
Michigan			374	374				374
Total		39	453	492				492
White birch								
Minnesota	27			27				27
Wisconsin	116	34	28	178		1,916	1,916	2,094
Michigan	173		1,475	1,648		242	242	1,890
Total	316	34	1,503	1,853		2,158	2,158	4,011
Yellow birch								
Minnesota	3			3				3
Wisconsin	309	1,751	4,129	6,189		1,824	1,824	8,013
Michigan		89	1,929	2,018		168	168	2,186
Outside Lake States		23	91	114				
Total	. 312	1,863	6,149	8,324		1,992	1,992	10,202
Butternut								
Minnesota	3			3				3
Wisconsin	ĭ	11		12				12
Outside Lake States	44	384	1	429				
Total	48	395	1	444				15
Black cherry								
Wisconsin		44	21	65				65
Michigan		10	151	161	12		12	173
Outside Lake States	16	19	31	66				
Total	16	73	203	292	12		12	238
Cottonwood								
Minnesota	103			103				103
	699	200		899	593		593	1,492
				0,,				
Wisconsin Michigan			439	439	58		58	497

(Continued on next page)

Species and		Product ty of veneer log		.	Lake States			
destination	Minnesota	: Wisconsin	Michigan	Region	Other States	Canada	: Total : imports	1/
Elm								
Minnesota .	32			32				32
Wisconsin	710 .	2,972	558	4,240	370		370 	4,610
Michigan		16	573	589				589
Outside Lake States	182	235	81	498				
Total	924	3,223	1,212	5,359	370		370	5,231
Hickory					• • • •		100	25/
Michigan			172	172	182		182	354
Outside Lake States			21	21				
Total			193	193	182		182	354
Hard maple								
Minnesota	27			27				27
Wisconsin	160	3,731	2,291	6,182	398	772	1,170	7,352
Michigan		66	1,505	1,571				1,571
Outside Lake States		98	1,540	1,638				
Total ·	187	3,895	5,336	9,418	398	772	1,170	8,950
Soft maple								72
Minnesota	72			72				
Wisconsin	104	784	72	960	76	:	76	1,036 183
Michigan			183	183				183
Outside Lake States		15		15				
Total	176	799	255	1,230	76		76	1,291
Red oak						_		
Wisconsin	631	6,154	326	7,111	868	8 .	876	7,987
Michigan		92	300	392				392
Outside Lake States	451	1	224	676			 ·	
Total	1,082	6,247	850	8,179	868	8	876	8,379
White oak					1		1	166
Wisconsin	41	124		165	-			3
Michigan		3		3				
Outside Lake States			309	309				
Total	41	127	309	477	1		1	169
Walnut					7		7	7
Michigan Outside Lake States	301	815	585	1,701				
Total	301	815	585	1,701	7		7	7
Misc, species								
Wisconsin		136	150	286	34		34	320
Michigan			338	338	'			338
Outside Lake States		241	40 ·	281				
Total		377	528	905	34		34	658
All species								
Minnesota	482			482				482
	3,518	18,853	8,001	30,372	2,679	4,520	7,199	37,571
Wisconsin								
Wisconsin Michigan		332	8,375	8,880	283	410	693	9,573
Wisconsin Michigan Outside Lake States	173 994			8,880 5,803	283	410	693 	9,573

 $[\]frac{1}{2}/$ Production minus exports plus imports. $\frac{2}{2}$ Veneer logs shipped to mills outside the Lake States.

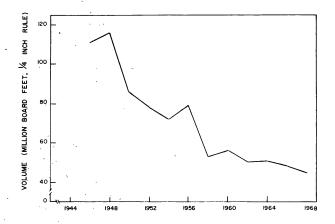


Figure 2. – Lake States veneer-log production, 1946-1968.

Mill Receipts

Lake States mills received 47.6 million board feet of veneer logs in 1968, a decline of 7.8 million board feet since 1966. Although most species declined, the major losses occurred in basswood, hard maple, and red oak. Reasons for the decline given by veneer mill operators were a desire to lower inventories, a shortage of quality

veneer logs, reduced demand for furniture veneers produced in the region, and some finished veneers or veneer products were cheaper to import from other regions than to manufacture.

Basswood, long a favorite for veneer-core stock, is being replaced by aspen and cottonwood. Demand for hard maple and red oak veneer logs dropped because furniture styles changed to those requiring more pecan and white oak.

Of the 47.6 million board feet received at the mills, 39.7 million board feet came from the region, 4.9 million board feet from Canada, and the remainder from other States. Of the total imported from Canada, white and yellow birch were predominant. Cottonwood and red oak were the principal species from States outside the region.

Wisconsin receipts were 37.6 million board feet, predominately yellow birch, red oak, and hard maple. Half the volume came from Wisconsin, while Michigan, Minnesota, and Canada supplied 21, 9, and 19 percent, respectively. The remainder was imported from other States, mainly Iowa.



(F-501919)

Processing sliced walnut veneer.

Michigan mill receipts were 9.6 million board feet. Nearly 90 percent of this volume was produced in the State. The largest volumes received-were yellow birch (23 percent), white birch (20 percent, and hard maple (16 percent).

Minnesota container mills, the only type of veneer mill in the State (fig. 1), received 0.4 million board feet of veneer logs. All the logs were produced within the State and the predominant species were cottonwood and ash.

CENTRAL STATES

Production

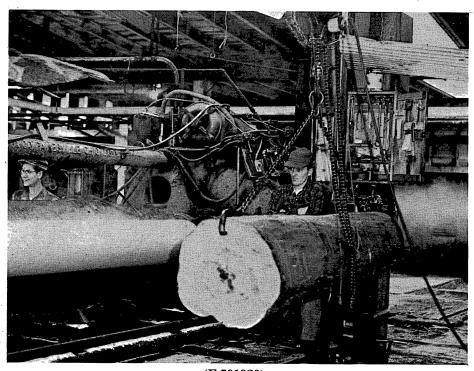
Loggers in the Central States produced 37.0 million board feet of veneer logs (table 3). There were sharp increases over 1966 in hickory, white oak, and walnut — species used for furniture veneer. Walnut, the major species produced in all the Central States, accounted for 44 percent of the total. Of the remainder, cottonwood, white oak, and hickory accounted for almost 30 percent. Walnut and hickory were the largest exports.

Indiana processed 87 percent of its own logs and 56 percent of all the veneer logs produced in the Central States. Illinois, Iowa, and Missouri exported most of their logs to other Central States.

Receipts

Log receipts at Central States mills amounted to 48.8 million board feet, slightly higher than in 1966. The receipts of hickory and white oak more than doubled. This resulted from the shift to furniture styles using these species. Walnut, while accounting for 38 percent of receipts, increased only slightly since 1966.

Almost four-tenths of the Central States log receipts were imported. Of this almost seven-tenths came from Wisconsin, Michigan, Ohio, Kentucky, and Kansas. Walnut, hickory, white oak, and cottonwood were the major species imported.



(F-501920)
Oak log being readied for processing on a rotary veneer rig.

Table 3. – Production and imports of veneer logs, Central States, 1968 (Thousand board feet, International 4-inch rule)

:			Pro	oduct for				Imports		: Central State
Species	Destination	Indiana	Illinois	Iowa	Missouri	Region :	Other States	Canada	Total imports	receipts <u>l</u> /
sh	Indiana	398				398	242		242	640
	Other Central States ² /		13	84	18	115	58		58	173
,	Outside Central States	12		26		38_			300	813
	Total	410	13	110	18	551 7	300 23	<u></u>-	23	30
Basswood	Indiana	7 		488		488	13		13	501
	Other Central States Outside Central States		27	270	2	299				
	Total	7	27	758	2	794	36		36	531
Black cherry	Indiana	111	12	14		137	534		534	671
	Other Central States		2	3i		33	23_		23	56
	Total	111	14	45		170	557		557	727
Butternut.	Indiana	4		61		65	396		396 32	461 73
•	Other Central States	4	2 2	38 99	<u>1</u> 1	106	32 428		428	534
2 2	Total	999	154			1,153	103		103	1,256
Cottonwood	Indiana Other Central States	186	1,721		545	2,452	1,964		1,964	4,416
* ,	Outside Central States	58		411	38	507			·	
	Total	1,243	1,875	411	583	4,112	2,067		2,067	5,672
Elm	Indiana	36		24		60	400		400	460
:	Other Central States		35	254		289	213		213	502
	Outside Central States			363	2	365			613	962
	Total	36	35	641	2	714	: 613 186		186	809
Gum -	Indiana	513	110		22	623 250	100		100	250
	Other Central States		228		3	3				
	Outside Central States Total	513	338		25	876	186		186	1,059
Hickory	Indiana	522	467		556	1,545	2,689		2,689	4,234
HICKOLY	Other Central States		55	32	345	432	260		260	692
	Outside Central States	6	421		618	1,045				
	Total	528	943	32	1,519	3,022	2,949		2,949	4,926
Hard maple	Indiana	689				689	1,694	277	1,971	2,660
	Other Central States			56		56	19		19 	75
	Outside Central States	138		398	7 7	543 1,288	1,713	277	1,990	2,735
0.61	Total	827 52		454	<u></u>	52	31		31	83
Soft maple	Indiana Other Central States		78	109	60	247	208		208	455
	Outside Central States			73	15	88				
	Total	52	78	182	75	387	239		239	538
Red oak	Indiana	513				513	664		664	1,177
A second	Other Central States		48	625	6	679	452		452	1,131
•	Outside Central States	32_	104	760	3.	899				
	Total	545	152	1,385	9	2,091	1,116		1,116	2,308 4,841
White oak	Indiana	2,563	317	49	9 42	2,889 178	1,952 116		1,952 116	4,841 294
•	Other Central States	467	87 41	49	1	510	116			254
	Outside Central States Total	3,030	445	50	52	3,577	2,068		2,068	5,135
Sycamore	Indiana	610				610	155		155	765
-,	Other Central States		141	1	82	224	97		97	321
	Outside Central States		44		286	330				
	Total	610	185	1	368	1,164	252		252	1,086
Yellow poplar	Indiana	1,268				1,268	637		637	1,905 26
4	Other Central States		13	13	55	26 55				20
	Outside Central States	1,268	13	13	55	1,349	637		637	1,931
Walnut	Total :	6,089	2,315	1,540	230	10,174	2,949		2,949	13,123
marilut .	Other Central States	0,009	420	1,769	1,581	3,770	1,476		1,476	5,246
	Outside Central States	1,291	250	120	486	2,147				
	Total	7,380	2,985	3,429	2,297	16,091	4,425		4,425	18,369
Misc. species	Indiana	453	16		33	502	618	15	633	1,135
	Other Central States		55	72	36	163	128		128	291
,	Outside Central States				8	8			7/1	1 /26
	Total	453	71	72	77	673	746		761	1,426 34,250
All species	Indiana	14,827	3,391	1,639	828	20,685	13,273 5,059	292	13,565 5,059	14,502
	Other Central States Outside Central States	186 2,004	2,898 887	3,621 2,422	2,738 1,524	9,443	5,059		ورن,ر	14,502
					1.324					

 $[\]frac{1}{2}$ / Production minus exports plus imports. $\frac{1}{2}$ / .Illinois, Iowa, and Missouri were combined to avoid disclosure of individual mill operations.

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ABOUT THE FOREST SERVICE . . .

As our Nation grows, people expect and need more from their forests — more wood; more water, fish, and wildlife; more recreation and natural beauty; more special forest products and forage. The Forest Service of the U.S. Department of Agriculture helps to fulfill these expectations and needs through three major activities:



- Conducting forest and range research at over 75 locations ranging from Puerto Rico to Alaska to Hawaii.
- Participating with all State forestry agencies in cooperative programs to protect, improve, and wisely use our Country's 395 million acres of State, local, and private forest lands.
- Managing and protecting the 187-million acre National Forest System.

The Forest Service does this by encouraging use of the new knowledge that research scientists develop; by setting an example in managing, under sustained yield, the National Forests and Grasslands for multiple use purposes; and by cooperating with all States and with private citizens in their efforts to achieve better management, protection, and use of forest resources.

Traditionally, Forest Service people have been active members of the communities and towns in which they live and work. They strive to secure for all, continuous benefits from the Country's forest resources.

For more than 60 years, the Forest Service has been serving the Nation as a leading natural resource conservation agency.